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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF : John Grassi et al.  
FOR : **LOST PATTERN MOLD REMOVAL  
CASTING METHOD AND APPARATUS**  
SERIAL NO. : 10/665,783  
FILED : September 19, 2003  
EXAMINER : Ing Hour Lin  
ART UNIT : 1725  
CONFIRMATION NO. : 6732  
ATTORNEY DOCKET NO. : **GISZ 2 00034**

**SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, 1.98 and MPEP § 609, applicant(s) submit(s) the following Disclosure Statement concerning art of which the applicant(s) is (are) aware. A copy of PTO-1449 is enclosed herewith.

This Information Disclosure Statement should not be construed to be an admission that any information referred to herein or submitted herewith is "prior art" or is considered to be material to patentability for this invention.

The United States Patent and Trademark Office OG Notice dated 12 October 2004 published a final rule revising 37 C.F.R. 1.98 dealing with the content of Disclosure Statements. Paragraph (a)(2) was revised to read in part, "A legible copy of: (i) Each foreign patent; (ii) Each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the

Office.” Therefore, Applicant(s) has (have) not enclosed copies of the cited U.S. patents and published patent applications with this Information Disclosure Statement.

In accordance with 37 C.F.R. §1.97(g) and (h), the filing of this Information Disclosure Statement should not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

☒ Under § 1.98(a)(3), a concise explanation of relevance is required for information that is not in the English language. Accordingly, the English language documents have no further explanation.

Document AM, the Swiss 622 726 patent is in the German language. An English language equivalent of the Swiss patent is British Patent No. 1,549,220, Document AN. Therefore, no further comment concerning the German language document is necessary.

☐ All of the cited and/or included documents were cited by the Patent Office in a related application(s). A copy of the Search Report is enclosed.

Consideration of the appropriate paragraph(s) indicated below is respectfully requested:

☐ **WITHIN THREE MONTHS OF FILING:** Under § 1.97(b)(1), this Information Disclosure Statement is being filed within three months of the filing date of the application (or date of entry of the national stage). Although it is believed no fee is necessary, any deficiency in fees should be handled as set forth below.

☐ **BEFORE FIRST OFFICE ACTION:** Under § 1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. Although it is believed no fee is necessary, any deficiency in fees should be handled as set forth below.

☐ **BEFORE FINAL ACTION, OR NOTICE OF ALLOWANCE, OR ACTION THAT CLOSES PROSECUTION/WITH STATEMENT:** Under § 1.97(c)(1), this information shall be considered if filed before the mailing date of a final action, or a Notice of Allowance or action that otherwise closes prosecution in the application if accompanied by the statement:

Under § 1.97(e)(1), the undersigned states:

☐ A. that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement; or

☐ B. that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

☒ **BEFORE FINAL ACTION, OR NOTICE OF ALLOWANCE, OR ACTION THAT CLOSSES PROSECUTION/WITH FEE:** Under § 1.97(c)(2), this information shall be considered if filed before the mailing date of a final action if accompanied by a fee in the amount of \$180.00 as required by §1.17(p). Accordingly, the necessary fee accompanies this Information Disclosure Statement, as set forth below.

☐ **AFTER FINAL ACTION, OR NOTICE OF ALLOWANCE, OR ACTION THAT CLOSSES PROSECUTION/AND ON OR BEFORE PAYMENT OF THE ISSUE FEE:**

1. Under § 1.97(e)(1), the undersigned states:

☐ A. that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement; or

☐ B. that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the Information Disclosure Statement; and

2. ☐ the fee in the amount of \$180.00 as required by §1.17(p). Accordingly, the necessary fee accompanies this Information Disclosure Statement, as set forth below.

☐ **PRIORITY CLAIM:** The attached PTO 1449 Form includes all patents, publications, or other information previously cited by or submitted to the Office in one or more prior applications from which the present application claims priority. These one or more prior applications are identified in the papers accompanying the filing of this application.

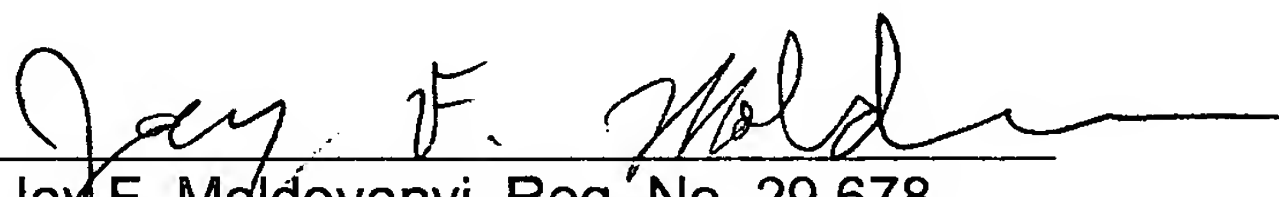
Any payment due for the filing of this Information Disclosure Statement is authorized to be charged to a Credit Card. The appropriate form PTO-2038 is enclosed for this purpose. **If the Credit Card is unable to be charged, please charge any and all fees or credit any overpayment to Deposit Account No. 06-0308.**

It is respectfully requested that the attached document(s) be considered and officially cited in examination of this application.

Respectfully submitted,

FAY, SHARPE, FAGAN,  
MINNICH & McKEE, LLP

July 6, 2005  
Date

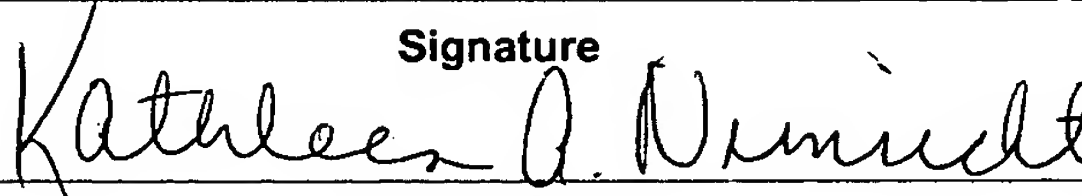
  
Jay F. Moldovanyi, Reg. No. 29,678  
1100 Superior Avenue, Seventh Floor  
Cleveland, OH 44114-2579  
216-861-5582

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CERTIFICATE OF MAILING

I certify that this Information Disclosure Statement and accompanying document(s) are being

- ☒ deposited with the United States Postal Service as First Class mail under 37 C.F.R. 1.8, addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.
- ☐ transmitted to facsimile number \_\_\_\_\_ under 37 C.F.R. 1.8 on the date indicated below.
- ☐ deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated below and is addressed to: Mail Stop Amendment, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

	<p style="text-align: right;">Signature</p> 
<p style="text-align: right;">Date</p> <p>July 6, 2005</p>	<p style="text-align: right;">Printed Name</p> <p>Kathleen A. Nimrichter</p>

Substitute for Form 1449/PTO

**COMPLETE IF KNOWN****INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT(S)**

(Use as many sheets as necessary)

Sheet 1 of 1

Application Number	10/665,783
Filing Date	September 19, 2003
First Named Inventor	John Grassi et al.
Art Unit	1725
Examiner Name	Ing Hour Lin
Attorney Docket No.	GISZ 2 00034

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	AA	US-4,582,118	04/15/1986	Jacoby et al.
	AB	US-4,610,295	09/09/1986	Jacoby et al.
	AC	US-4,709,740	12/01/1987	Jacoby et al.
	AD	US-4,724,887	02/16/1988	Jacoby et al.
	AE	US-4,987,950	01/29/1991	Yu
	AF	US-5,148,853	09/22/1992	Yu et al.
	AG	US-5,681,407	10/28/1997	Yu et al.
	AH	US-5,820,705	10/13/1998	Yu et al.
	AI	US-		
	AJ	US-		
	AK	US-		
	AL	US-		

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T
	AM	CH 622 726	04/30/1981	Kohlswa Jernverks Aktiebolaget, Kolsva (SE)	N
	AN	GB 1 549 220	07/25/1979	Back et al. (English Text)	
	AO	EP 0 744 233	11/27/1996	Howmet Corporation (English Text)	
	AP	EP 0 141 666	05/15/1985	Ford Motor Company Limited (English Text)	
	AQ				

**OTHER - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T
	AR	Patent Abstracts of Japan, JP-60247458 (Mazda Motor Corp.) December 7, 1985.	
	AS	NIEDLING, JAKE J. et al., "Evaluating RSI Sows For Safe Charging Into Molten Metal", Light Metals 2003, TMS (The Minerals, Metals & Materials Society), 2003, pp. 695-700.	
	AT	EKENES, J. MARTIN et al., "Cause and Prevention of Explosions Involving Hot-Top Casting of Aluminum Extrusion Ingot", Light Metals 2003, TMS (The Minerals, Metals & Materials Society), 2003, pp. 687-693.	
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	AV		

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Examiner Signature		Date Considered	
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